

MULTIPLE CONTRAST ECHO-PLANAR IMAGING
FOR CONTRAST-ENHANCED IMAGING

Abstract of the Disclosure

5 A dose of a contrast agent (44) is administered
to the patient (42). A magnetic resonance is excited by
an RF pulse (200) in a region of interest of the patient
(42). An echo-planar imaging (EPI) readout waveform is
implemented a preselected duration after the excitation to
generate T_2 or T_2^* weighted data. During the preselected
10 duration, another echo planar readout waveform is
implemented to generate T_1 or proton density weighted data.
The data is reconstructed (56) to generate a T_2 or T_2^*
weighted image and a T_1 weighted image. The T_1 and T_2 or
 T_2^* weighted images are combined (62) to generate a
15 contrast enhanced image.